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Atty. Dkt. No. 039363-0703

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ryan Bremer et al.
Title: CRYSTAL STRUCTURE OF
PIM-1 KINASE
Appl. No.: 10/664,421
Filing Date: 09/16/2003
Examiner:
Art Unit:

<p>CERTIFICATE OF MAILING I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below.</p> <p><u>DIANE GARCIA</u> (Printed Name)</p> <p><u>Diane Garcia</u> (Signature)</p> <p><u>9-22-04</u> (Date of Deposit)</p>
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INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Mail Stop Amendment-IDS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document, except as noted below, is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The USPTO has waived the requirement under 37 CFR 1.98(a)(2)(i) to submit copies of U.S. patents and U.S. patent application publications when citing and submitting an Information Disclosure Statements in a patent application filed after June 30, 2003 and in an international application that has entered the national stage under 37 USC §371 after June 30, 2003. Accordingly, copies of these types of documents are not being supplied in connection with this application. Reference is being made to Pre-OG Notice from Office of Patent Legal Administration dated July 25, 2003, *Information Disclosure Statements May Be Filed Without*

Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-0872. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even

entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit
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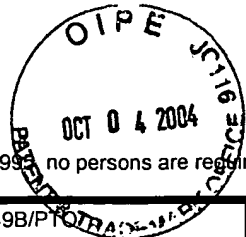
Respectfully submitted,

Date 21 Sept. 2004

By Wesley B. Ames

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Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 26

Complete if Known

Application Number	10/664,421
Filing Date	09/16/2003
First Named Inventor	Ryan BREMER
Group Art Unit	
Examiner Name	
Attorney Docket Number	039363-0703

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	4,150,949		Smith	04-24-1979	
	A2	4,568,649		Bertoglio-Matte	02-04-1986	
	A3	4,626,513		Burton et al.	12-02-1986	
	A4	5,143,854		Pirrung et al.	09-01-1992	
	A5	5,426,039		Wallace et al.	06-20-1995	
	A6	5,434,049		Okano et al.	07-18-1995	
	A7	5,449,614		Danos et al.	09-12-1995	
	A8	5,474,935		Chatterjee et al.	12-12-1995	
	A9	5,516,775		Zimmermann et al.	05-14-1996	
	A10	5,521,184		Zimmermann	05-28-1996	
	A11	5,543,520		Zimmermann	08-06-1996	
	A12	5,556,752		Lockhart et al.	09-17-1996	
	A13	5,580,859		Felgner et al.	12-03-1996	
	A14	5,620,981		Blanklet et al.	04-15-1997	
	A15	5,631,236		Woo et al.	05-20-1997	
	A16	5,632,957		Heller et al.	05-27-1997	
	A17	5,658,775		Gilboa	08-19-1997	
	A18	5,700,637		Southern	12-23-1997	
	A19	5,721,118		Scheffler	02-24-1998	
	A20	5,733,913		Blankley et al.	03-31-1998	
	A21	5,733,914		Blankley et al.	03-31-1998	
	A22	5,744,305		Fodor et al.	04-28-1998	
	A23	5,747,276		Hoch et al.	05-05-1998	
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	A28	5,830,645		Pinkel et al.	11-03-1998	
	A29	5,840,485		Lebl et al.	11-24-1998	
	A30	5,856,174		Lipshutz et al.	01-05-1999	
	A31	5,877,007		Housey	02-02-1999	
	A32	5,945,422		Doherty et al.	08-31-1999	
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	A34	5,965,452		Kovacs	10-12-1999	
	A35	6,013,440		Lipshultz et al.	01-11-2000	
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	A37	6,025,155		Hadlaczky et al.	02-15-2000	
	A38	6,045,996		Cronin et al.	04-04-2000	

 Examiner
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 Date
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/664,421
				Filing Date	09/16/2003
				First Named Inventor	Ryan BREMER
				Group Art Unit	
				Examiner Name	
Sheet	2	of	26	Attorney Docket Number	039363-0703

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		U.S. Patent Document			
	A39	6,048,695		Bradley et al.	04-11-2000
	A40	6,054,270		Southern	04-25-2000
	A41	6,090,912		Lebl et al.	07-18-2000
	A42	6,096,718		Weitzman et al.	08-01-2000
	A43	6,107,478		Pedersen et al.	08-22-2000
	A44	6,110,456		During	08-29-2000
	A45	6,110,458		Freeman et al.	08-29-2000
	A46	6,113,913		Brough et al.	09-05-2000
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	A52	6,277,489		Abbott et al.	08-21-2001
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	A55	6,294,330		Michnick et al.	09-25-2001

FOREIGN PATENT DOCUMENTS

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	A56	WO	95/09847		Ciba-Geigy AG	04-13-1995		
	A57	WO	96/17958		The Regents of the University of California	06-13-1996		
	A58	WO	96/18738		Sugen, Inc.	06-20-1996		
	A59	WO	97/46313		Array Technologies	12-11-1997		
	A60	WO	99/09217		Hyseq, Inc.	02-25-1999		
	A61	WO	99/51773		Phylos, Inc.	10-14-1999		
	A62	EP	0154734		Immunex Corporation	08-29-1990		

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	A63	AARONSON, "Growth Factors and Cancer," <i>Science</i> . 254:1146-1153 (1991)	
	A64	ALFTHAN, "Surface Plasmon Resonance Biosensors as a Tool in Antibody Engineering," <i>Biosensors & Bioelectronics</i> 13:653-663 (1998)	
	A65	AL-OBEIDI, "Peptide and Peptidomimetic Libraries – Molecular Diversity and Drug Design," <i>Mol Biotechnol</i> 9(3):205-223 (1998)	
	A66	AMERSDORFER and Marks, "Phage Libraries for Generation of Anti-Botulinum scFv Antibodies," <i>Methods in Molecular Biology</i> 145:219-240 (2001)	
	A67	AMSON <i>et al.</i> , "The Human Proto-Oncogene Product P33pim is Expressed During Fetal Hematopoiesis and in Diverse Leukemias," <i>Proceedings of the National Academy of Sciences</i> 86(22):8857-8861 (1989)	
	A68	BAGSHAW and HARRIS, "Measurement of Ligand Binding to Proteins," <i>Spectrophotometry and Spectrofluorometry: A Practical Approach</i> 4:91-114 (1987)	
	A69	BARTLETT <i>et al.</i> , "CAVEAT: A Program to facilitate the structure-derived design of biologically active molecules." In <i>Molecular Recognition: Chemical and Biological Problems. The Proceedings of an International Symposium, University of Exeter, April 1989, Royal Society of Chemistry, Cambridge</i> 182-196 (1989)	
	A70	BAYTEL, <i>et al.</i> , "The Human <i>Pim-2</i> Proto-oncogene and its Testicular Expression," <i>Biochimica et Biophysica Acta</i> 1442: 274-285 (1998)	
	A71	BELL, "Spectroscopy In Biochemistry," 1:155-194 (1981)	
	A72	BELLIS <i>et al.</i> , "Characterization of Tyrosine Phosphorylation of Paxillin <i>in Vitro</i> by Focal Adhesion Kinase," <i>J Biol Chem</i> 270:17437-17441 (1995)	
	A73	BLUNDELL <i>et al.</i> , "Knowledge-Based Protein Modeling and Design," <i>Eur. J. Biochem.</i> 172:513 (1988)	

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	A74	BÖHM, "On the Use of LUDI to Search the Fine Chemicals Directory for Ligands of Proteins of Known Three-Dimensional Structure," <i>J. Comp. Aided Molec. Design</i> 8:623 (1994)	
	A75	BOLGER and SHERMAN, "Computer Modeling of Combining Site Structure of Anti-hapten Monoclonal Antibodies," <i>Methods Enz.</i> 203:21-45 (1991)	
	A76	BOWTELL, "Options Available – From Start to Finish – For Obtaining Expression Data by Microarray," <i>Nature Genetics Supp.</i> 21:25-32 (1999)	
	A77	BRENNER <i>et al.</i> , "Encoded Combinatorial Chemistry," <i>Proc. Natl. Acad. Sci. USA</i> , 89:5381-5383 (1992)	
	A78	BROWN and BIRNBAUMER, "Ionic Channels and Their Regulation by G Protein Subunits," <i>Ann. Rev. Physiol.</i> 52:197-213 (1990)	
	A79	BRÜNGER, "Free R value: A Novel Statistical Quantity for Assessing the Accuracy of Crystal Structures," <i>Nature</i> 355:472-475 (1992)	
	A80	BUCHSCHER and PANGANIBAN, "Human Immunodeficiency Virus Vectors for Inducible Expression of Foreign Genes," <i>J. Virol.</i> 66:2731-2739 (1992)	
	A81	CAPON, <i>et al.</i> , "Designing CD4 Immunoadhesins for AIDS Therapy," <i>Nature</i> 377:525-531 (1989)	

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	A82	CARELL <i>et al.</i> , "New Promise in Combinatorial Chemistry: Synthesis, Characterization, and Screening of Small-Molecule Libraries Solution," <i>Chem. Biol.</i> 3:171-183 (1995)	
	A83	CHABALA, "Solid-Phase Combinatorial Chemistry and Novel Tagging Methods for Identifying Leads," <i>Curr Opin Biotechnol</i> 6(6):633-639 (1995)	
	A84	CHECOVICH <i>et al.</i> , "Fluorescence Polarization – a New Tool for Cell and Molecular Biology," <i>Nature</i> 375:254-256 (1995)	
	A85	CHEN <i>et al.</i> "Pim Serine/Threonine Kinases Regulate the Stability of Socs-1 Protein," <i>Proceedings of the National Academy of Sciences of the United States of America</i> 99(4):2175-2180 (2002)	
	A86	CLARK <i>et al.</i> , "PRO-LIGAND: An Approach to De Novo Molecular Design. 1. Application to the Design of Organic Molecules," <i>J. Comp. Aided Molec. Design</i> 9:13 (1995)	
	A87	COBB <i>et al.</i> , "Stable Association of pp60 ^{src} and pp59 ^{lyn} with the Focal Adhesion-Associated Protein Tyrosine Kinase, pp125 ^{FAK} ," <i>Mol. Cell. Biol.</i> 14(1):147-155 (1994)	
	A88	COE and STORER, "Solution-phase combinatorial chemistry." <i>Molecular Diversity</i> , 4:1-38, 1999.	
	A89	COLLIUOD, "Oriented and Covalent Immobilization of Target Molecules to Solid Supports: Synthesis and Application of a Light-Activatable and Thiol-Reactive Cross-Linking Reagent," <i>Bioconjugate Chem.</i> 4:528-536 (1993)	

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	A90	COLMAN, "Structure-Based Drug Design," <i>Current Opinion in Struc. Biol.</i> 4:868 (1994)	
	A91	COTRAN et al., "Healing and Repair," Robbins Pathologic Basis of Disease, 4 th Edition, p. 75, (1989)	
	A92	CREIGHTON, "An Empirical Approach to Protein Conformation Stability and Flexibility," <i>Biopolymers</i> 22(1):49-58 (1983)	
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	A94	CWIRLA et al., "Peptides on Phage: A Vast Library of Peptides for Identifying Ligands," <i>Biochemistry</i> 87:6378-6382 (1990)	
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	A96	DIKIC et al., "A Role For Pyk2 and Src in Linking G-Protein-Coupled Receptors with MAP Kinase Activation," <i>Nature</i> 383:547-550 (1996)	
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	A98	DOLLE and NELSON, "Comprehensive Survey of Combinatorial Library Synthesis: 1998," <i>J Comb Chem</i> 1(4):235-282 (1999)	
	A99	DOLPHIN, "G Protein Modulation of Calcium Currents in Neurons," <i>Ann. Rev. Physiol.</i> 52:243-255 (1990)	
	A100	DOMEN, <i>et al.</i> , "Pim-1 Levels Determine the Size of Early B Lymphoid Compartments in Bone Marrow," <i>The Journal of Experimental Medicine</i> 178(5)1665-1673 (1993)	
	A101	DUONG <i>et al.</i> , "PYK2 in Osteoclasts is an Adhesion Kinase, Localized in the Sealing Zone, Activated by Ligation of $\alpha_v\beta_3$ Integrin, and Phosphorylated by Src Kinase," <i>J Clin Invest.</i> 102:881-892 (1998)	
	A102	EICHMANN <i>et al.</i> , "Developmental Expression of Pim Kinases Suggests Functions Also Outside of the Hematopoietic System," <i>Oncogene</i> 19:1215-1224 (2000)	
	A103	ELISEEV and LEHN, "Dynamic Combinatorial Chemistry: Evolutionary Formation and Screening of Molecular Libraries," <i>Current Topics in Microbiology & Immunology</i> 243:159-172 (1999)	
	A104	ENJALBAL <i>et al.</i> , "Mass Spectrometry in Combinatorial Chemistry," <i>Mass Spectrometry Reviews.</i> 19:139-161 (2000)	
	A105	FENG <i>et al.</i> , "Stable in Vivo Gene Transduction Via a Novel Adenoviral/Retroviral Chimeric Vector," <i>Nature Biotechnology</i> 15:866-870 (1997)	

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		Application Number	10/664,421
		Filing Date	09/16/2003
		First Named Inventor	Ryan BREMER
		Group Art Unit	
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	A106	FISCHER and SCHONBRUNN, "The Bombesin Receptor is Coupled to a Guanine Nucleotide-Binding Protein Which is Insensitive to Pertussis and Cholera Toxins," <i>J. Biol. Chem.</i> , 263(6):2808-2816 (1988)	
	A107	FIVASH <i>et al.</i> , "BIAcore for Macromolecular Interaction," <i>Current Opinion in Biotechnology</i> 9:97-101 (1998)	
	A108	FREIDINGER RM., "Nonpeptidic Ligands for Peptide and Protein Receptors," <i>Current Opinion in Chemical Biology</i> 3:395-406 (1999)	
	A109	FRUCHT, <i>et al.</i> , "Characterization of Functional Receptors for Gastrointestinal Hormones on Human Colon Cancer Cells," <i>Cancer Research</i> , 52:1114-1122 (1992)	
	A110	GALLOP <i>et al.</i> , "Applications of Combinatorial Technologies to Drug Discovery. 1. Background and Peptide Combinatorial Libraries," <i>J. Med. Chem.</i> , 37:1233-1251 (1994)	
	A111	GILMAN, A., "G Proteins: Transducers of Receptor-Generated Signals," <i>Ann. Rev. Biochem.</i> 56:615-649 (1987)	
	A112	GOODFORD, P., "A Computational Procedure for Determining Energetically Favorable Binding Sites on Biologically Important Macromolecules," <i>J. Med. Chem.</i> 28:849-857 (1985)	
	A113	GOODSELL and OLSON, "Automated Docking of Substrates to Proteins by Simulated Annealing," <i>Proteins: Structure, Function, and Genetics</i> 8:195-202 (1990)	

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	A114	GORDON <i>et al.</i> , "Applications of Combinatorial Technologies to Drug Discovery. 2. Combinatorial Organic Synthesis, Library Screening Strategies, and Future Directions," <i>J. Med. Chem.</i> , 37:1385-1401 (1994)	
	A115	GORDON and FORD, "Detection of Peroxides and Their Removal," <i>The Chemist's Companion: A Handbook Of Practical Data, Techniques, And References</i> , John Wiley and Sons, p. 437 (1972)	
	A116	GRAM H., "Phage Display in Proteolysis and Signal Transduction," <i>Combinatorial Chemistry & High Throughput Screening</i> 2:19-28 (1999)	
	A117	GRAVERT and JANDA, "Synthesis on Soluble Polymers: New Reactions and the Construction of Small Molecules," <i>Curr. Opin. Chem. Biol.</i> 1(1):107-13 (1997)	
	A118	GREER, J., "Model Structure for the Inflammatory Protein C5a," <i>Science</i> 228:1055-1060 (1985)	
	A119	GUIDA, C., "Software for Structure-Based Drug Design," <i>Current Opinion in Struc. Biol.</i> 4:777-781 (1994)	
	A120	GUMBINER, B., "Proteins Associated with the Cytoplasmic Surface of Adhesion Molecules," <i>Neuron</i> , 11:551-564 (1993)	
	A121	HAFNER <i>et al.</i> , "Isothermal Amplification and Multimerization of DNA by <i>Bst</i> DNA Polymerase," <i>Biotechniques</i> 30:852-856 (2001)	

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	A122	HANDS, <i>et al.</i> , "A Convenient Method for the Preparation of 5-, 6- and 7-Azaindoles and Their Derivatives," <i>Synthesis</i> , pp. 877-882 (1996).	
	A123	HANSELMAN <i>et al.</i> , "A cDNA-Dependant Scintillation Proximity Assay for Quantifying Apolipoprotein A-1," <i>J. Lipid Res.</i> 38:2365-2373 (1997)	
	A124	HARTMANN, H., "Moleküldesign Bei Fluoreszenzfarbstoffen," <i>Chimia</i> , 48:512-514 (1994)	
	A125	HAUCK, <i>et al.</i> , "Focal Adhesion Kinase Functions as a Receptor-Proximal Signaling Component Required for Directed Cell Migration," <i>Immunol Res.</i> 21:293-303 (2000)	
	A126	HEIM and TSIEN, "Engineering Green Fluorescent Protein for Improved Brightness, Longer Wavelengths and Fluorescence Resonance Energy Transfer," <i>Curr. Biol.</i> 6:178-182 (1996)	
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	A128	HENDRICKSON <i>et al.</i> , "Selenomethionyl Proteins Produced for Analysis by Multiwavelength Anomalous Diffraction (MAD): a Vehicle for Direct Determination of Three-Dimensional Structure," <i>The EMBO Journal</i> 9(5):1665-1672 (1990)	
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	A130	HILDEBRAND, <i>et al.</i> , "An SH3 Domain-Containing GTPase-Activating Protein for Rho and Cdc42 Associates with Focal Adhesion Kinase," <i>Mol Cell Biol</i> , 16:3169-3178 (1996)		
	A131	HILLE, B., "G Protein-Coupled Mechanisms and Nervous Signaling," <i>Neuron</i> , 9:187-195 (1992)		
	A132	HOUGHTEN <i>et al.</i> , "Generation and Use of Synthetic Peptide Combinatorial Libraries for Basic Research and Drug Discovery," <i>Nature</i> , 354:84-86 (1991)		
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	A137	HYNES, R., "Integrins: Bidirectional, Allosteric Signaling Machines," <i>Cell</i> , 110:673-687 (2002)		

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	A138	IWANE, <i>et al.</i> , "Myosin Subfragment-1 is Fully Equipped with Factors Essential for Motor Function," <i>Biophys. Biochem. Res. Comm.</i> 230:76-80 (1997)	
	A139	JOHANN, <i>et al.</i> , "GLVR1, a Receptor for Gibbon Ape Leukemia Virus, is Homologous to a Phosphate Permease of <i>Neurospora Crassa</i> and is Expressed at High Levels in the Brain and Thymus," <i>J. Virol.</i> 66:1635-1640 (1992)	
	A140	JOHNSTON, M., "Gene Chips: Array of Hope for Understanding Gene Regulation," <i>Curr. Biol.</i> 8:R171-R174 (1998)	
	A141	JONES, T., "Interactive Computer Graphics: FRODO," <i>Methods in Enzymology</i> 115:157-171 (1985)	
	A142	JOSEPH-MCCARTHY, D., "Computational Approaches to Structure-Based Ligand Design," <i>Pharmacology & Therapeutics</i> 84:179-191 (1999)	
	A143	KAHL <i>et al.</i> , "A Multiple-Approach Scintillation Proximity Assay to Measure the Association Between Ras and Raf," <i>Anal. Biochem.</i> 243:282-283 (1996)	
	A144	KERN and HAMPTON, "Direct Hybridization of Large-Insert Genomic Clones on High-Density Gridded cDNA Filter Arrays," <i>Biotechniques</i> 23:120-124 (1997)	
	A145	KIM H. and KAHN, M., "A Merger of Rational Drug Design and Combinatorial Chemistry: Development and Application of Peptide Secondary Structure Mimetics," <i>Combinatorial Chemistry & High Throughput Screening</i> 3:167-183 (2000)	

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	A146	KIRKPATRICK, <i>et al.</i> , "Structure-Based Drug Design: Combinatorial Chemistry and Molecular Modeling," <i>Combinatorial Chemistry & High Throughput Screening</i> 2:211-221 (1999)	
	A147	KLINE <i>et al.</i> , "Studies by ¹ H Nuclear Magnetic Resonance and Distance Geometry of the Solution Conformation of the x-Amylase Inhibitor Tendamistat," <i>J. Mol. Biol.</i> 189:377-382 (1986)	
	A148	KNIGHTON <i>et al.</i> , "Structural Basis of the Intrasteric Regulation of Myosin Light Chain Kinases," <i>Science</i> 258:130-135 (1992)	
	A149	KOIKE <i>et al.</i> , "Identification of Heterochromatin Protein 1 (HP1) as a Phosphorylation Target by Pim-1 Kinase and the Effect of Phosphorylation on the Transcriptional Repression Function of HP1," <i>FEBS Letters</i> , 476:17-21 (2000)	
	A150	KOLASKAR and TONGAONKAR, "A Semi-Empirical Method for Prediction of Antigenic Determinants on Protein Antigens," <i>FEBBS Lett.</i> 276(1-2):172-174 (1990)	
	A151	KONIETZKO <i>et al.</i> , "Pim Kinase Expression is Induced by LTP Stimulation and Required for the Consolidation of Enduring LTP," <i>The EMBO Journal</i> 18:3359-3369 (1999)	
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	A153	KUNDU <i>et al.</i> , "Combinatorial Chemistry: Polymer Supported Synthesis of Peptide and Non-Peptide Libraries," <i>Progress in Drug Research</i> 53:89-156 (1999)	

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	A154	KUNKEL, T., "Rapid and Efficient Site-Specific Mutagenesis Without Phenotypic Selection," <i>Proc. Natl. Acad. Sci.</i> 82:488-492 (1985)		
	A155	KUNTZ, <i>et al.</i> , "Structure-Based Molecular Design," <i>Acc. Chem. Res.</i> 27:117 (1994)		
	A156	KUNTZ <i>et al.</i> , "A Geometric Approach to Macromolecule-Ligand Interactions," <i>J. Mol. Biol.</i> 162:269 (1982)		
	A157	LAIRD, <i>et al.</i> , "In Vivo Analysis of <i>Pim-1</i> Deficiency," <i>Nucleic Acids Research</i> 21(20):4750-4755 (1993)		
	A158	LAKKAKORPI, <i>et al.</i> , "Stable Association of PYK2 and p130 ^{Cas} in Osteoclasts and Their Co-Localization in the Sealing Zone," <i>J Biol Chem</i> , 274:4900-4907 (1999)		
	A159	LAM <i>et al.</i> , "A New Type of Synthetic Peptide Library for Identifying Ligand-Binding Activity," <i>Nature</i> , 354:82-84 (1991)		
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				Application Number	10/664,421
				Filing Date	09/16/2003
				First Named Inventor	Ryan BREMER
				Group Art Unit	
Examiner Name					
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				Application Number	10/664,421
				Filing Date	09/16/2003
				First Named Inventor	Ryan BREMER
				Group Art Unit	
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	A226	SHATTIL <i>et al.</i> , "Tyrosine Phosphorylation of pp125 ^{FAK} in Platelets Requires Coordinated Signaling Through Integrin and Agonist Receptors," <i>J. Biol. Chem.</i> 269(20):14738-14745 (1994)		
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	A234	TEMPLE <i>et al.</i> , "Microarray Analysis of Eosinophils Reveals a Number of Candidate Survival and Spoptosis Genes," <i>Am. J. Respir. Cell Mol. Biol.</i> 25:425-433 (2001)	
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	A240	VELY <i>et al.</i> , "BIAcore [®] Analysis to Test Phosphopeptide-SH2 Domain Interactions," <i>Methods in Molecular Biology</i> 121:313-21 (2000)	
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	A242	WANG <i>et al.</i> , "Pim-1 Negatively Regulates the Activity of PTP-U2S Phosphatase and Influences Terminal Differentiation and Apoptosis of Monoblastoid Leukemia Cells," <i>Archives of Biochemistry and Biophysics</i> , 390(1):9-18 (2001)		
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	A250	ZHU <i>et al.</i> , "CD40 Signaling in B Cells Regulates the Expression of the Pim 1 Kinase Via the NF-κB Pathway," <i>The Journal of Immunology</i> 168:744-754 (2002)	

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